IAP6 Rec'd PCT/PTO 29 MAY 2007

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)					CUSTOMER NO. 22,852 ATTORNEY'S DOCKET NUMBER: <b>06999.0078</b>			
		CONCERNING	A SUBMISSI	ION UNDER 35 U.S.C. 371	U.S. APPLICATION NO. if known, see 37 CFR 1.5 <b>10/582,167</b>			
		TIONAL APPLICATION N 04/005179	O.	INTERNATIONAL FILING DATE December 8, 2004	PRIORITY DATE CLAIMED December 8, 2003			
TITL	E OF	INVENTION: DATA ST	DRAGE DE	VICES				
APP	LICAN	ITS FOR DO/EO/US: 1)	lan John Ki	EEN and 2) Marc Adrian BORRETT				
Appl	icants	herewith submit to the U	nited States D	esignated/Elected Office (DO/EO/US) the follow	wing items and other information:			
1.		This is a FIRST submiss	ion of items c	oncerning a filing under 35 U.S.C 371.				
2.	⊠	This is a SECOND or St	JBSEQUENT	submission of items concerning a submission to	under 35 U.S.C. 371.			
3.		This is an express reque (5), (6), (9) and (21) ind	-	itional examination procedures (35 U.S.C. 371(	f)). The submission must include items			
4.		The US has been electe						
5.		A copy of the Internation	al Application	as filed (35 U.S.C. 371 (c)(2)).				
		a.  is attached h	ereto (require	ed only if not communicated by the International	Bureau).			
		b.  has been co	mmunicated b	by the International Bureau.				
		c. $\square$ is not require	ed, as the app	lication was filed with the United States Receivi	ng Office (RO/US).			
6.		An English language tra	nslation of the	e International Application as filed (35 U.S.C. 37	71(c)(2)).			
		a.   is attached by	ereto.					
		b.  has been pro	eviously subm	itted under 35 U.S.C. 154(d)(4).				
7.		Amendments to the claim	ms of the Inter	rnational Application under PCT Article 19 (35 L	J.S.C. 371 (c)(3)).			
		a.   are attached	hereto (requi	red only if not communicated by the Internation	al Bureau).			
		b. $\square$ have been c	ommunicated	by the International Bureau.				
		C.  have not been made; however, the time limit for making such amendments has NOT expired.						
		d. have not bee	en made and v	will not be made.				
8.		An English language tra	nslation of the	e amendments to the claims under PCT Article	19 (35 U.S.C. 371 (c)(3)).			
9.	$\boxtimes$	An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).						
10.		An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).						
Item	ıs 11 t	o 20 below concern dod	cument(s) or	information included:				
11.		Information Disclosure S	Statement und	ler 37 CFR 1.97 and 1.98				
12.		An assignment docume	nt for recordin	g. A separate cover sheet in compliance with 3	37 CFR 3.28 and 3.31 is included.			
13.		A preliminary amendme	nt.					
14.		An Application Data Sheet under 37 CFR 1.76.						
15.		A Substitute specification.						
16.		A power of attorney and/or change of address letter.						
17.		A computer-readable fo	rm of the sequ	uence listing in accordance with PCT Rule 13ter	r.2 and 35 U.S.C. 1.821-1.825.			
18.		A second copy of the pu	ıblished Intern	national Application under 35 U.S.C. 154 (d)(4).				
19.		A second copy of the E	nglish languag	ge translation of the international application 35	U.S.C. 154 (d)(4).			
20.	Ø	Other items or informati	on:					
		b. 🛛 Copy of No	tification of Mi	ernational Publication No. WO 2005/057481 At ssing Requirements.  ort from European Patent Office.	1.			

U.S. APPLICATION NO. 10/582,167	(if known, see 37 CFR 1.5)	INTERNATIONAL APPLICAT PCT/GB2004/005179	ION NO.		ATTORNEY'S DO	
The following	g fees have been submitted:				CALCULATIONS	PTO Use Only
21.  BASIC NATI	ONAL FEE (37 CFR 1.492(a)):		\$300.00		\$	,
22. Examination	fee (37CFR 1.492(c))					
by IPEA/US indica	pared by ISA/US or the International ites all claims satisfy provisions of Po	CT Article 33(1)-(4)	\$0		<b>\$</b>	
If the written opinion of the IPEA/US indicates Search fee (37 CFR 1.44 International Search Repreviously communication of the International Search Repreviously communication of the IPEA/US indicates a search search Repreviously communication of the IPEA/US indicates a search searc	B7 CFR 1.492(b)) The ISA/US or the International prelimits all claims satisfy provisions of PCT (IS(a)(2)) has been paid on the international Authority	Article 33(1)-(4)ational application to the USPT e US and provided to the Office	\$0 O as an \$100 e or \$400		<b>\$</b>	
		21, 22 and 23 =			\$	
listing in con electronic m	ecification and drawings filed in pape npliance with 37 CFR 1.821(c) or (e) edium) (37 CFR 1.492(j)). 250 for each additional 50 sheets of	or computer program listing in		·		
Total Sheets	Extra Sheets	Number of each additional thereof (round up to a whole		Rate		
52 - 100 =	/50=			x \$250.00	\$	
	furnishing any of the search fee, exactional stage (37 CFR 1.492(h)).	amination fee, or the oath or de	eclaration after the da	ate of	\$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			
Total Claims	21 - 20	= 1	x \$50.0	0	\$	
Independent Claims	4 -3	= 1	x \$200.0	00	\$	
MULTIPLE DEPENDENT	T CLAIM(S) (if applicable)		+\$360.0	00	\$	
		TOTA	L OF ABOVE CALC	ULATIONS =	\$130.00	
☐ Applicant claims small	ll entity status. See 37 CFR 1.27. F	ees above are reduced by ½.		<del> </del>	\$	
			(	SUBTOTAL =	\$130.00	
Processing fee of \$130.0 1.492(i)).	00 for furnishing the English translation	on later than 30 months from th	e earliest priority dat	e (37 CFR +	\$	
		·· <del>····</del>	TOTAL NATI	ONAL FEE =	\$130.00	
_	closed assignment (37 CFR 1.21 (h)) 8, 3.31). <b>\$40.00</b> per property.	). The assignment must be acc	companied by an app	oropriate +	\$	
1/2007 MKAYPAGH 000000			TOTAL FEES E	NCLOSED =	\$130.00	
C:1517	130.00 OP	<del>r. ·</del> ·			Amount to be	\$
					refunded: charged:	\$
				,		
a. 🛛 A check in the	amount of \$130.00 to cover the ab	ove fees is enclosed.				
<u> </u>	my Deposit Account No by of this sheet is enclosed.	in the amount of \$		to cover t	he above fees.	
	oner is hereby authorized to charge a duplicate copy of this sheet is enclo	•	be required, or credit	any overpayn	nent to Deposit Acco	unt
	charged to a credit card. WARNING Provide credit card information and a		become public. Cre	dit card infor	mation should not	be included
•	opriate time limit under 37 CFR 1.4 International Application to pendi		ion to revive (37 CF	R 1.137(a) or	(b)) must be filed a	nd granted
SEND ALL CORRESPO	ONDENCE TO:		11//			
Finnegan, Henderson, F 901 New York Avenue, N Washington, DC 20001- EFC/FPD/blc			Chapman/25,961			
DATED: May 29, 2007		NAME/RE	GISTRATION NUME	BER		

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	TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)				CUSTOMER NO. 22,852
٠		COI	•	ION UNDER 35 U.S.C. 371	ATTORNEY'S DOCKET NUMBER: 06999.0078
					U.S. APPLICATION NO. if known, see 37 CFR 1.5 10/582,167
		TIONAL APPL 004/005179	ICATION NO.	INTERNATIONAL FILING DATE December 8, 2004	PRIORITY DATE CLAIMED December 8, 2003
TITL	E OF	INVENTION: I	DATA STORAGE DEV	VICES	
APP	LICA	NTS FOR DO/	EO/US: 1) lan John KE	EEN and 2) Marc Adrian BORRETT	
Арр	licants	herewith subr	mit to the United States De	esignated/Elected Office (DO/EO/US) the follow	ving items and other information:
1.		This is a FIR	ST submission of items co	oncerning a filing under 35 U.S.C 371.	
2.	$\boxtimes$	This is a SEC	COND or SUBSEQUENT	submission of items concerning a submission u	under 35 U.S.C. 371.
3.		•	press request to begin na and (21) indicated below.	ational examination procedures (35 U.S.C. 371(f	f)). The submission must include items
4.		The US has i	been elected (Article 31).		
5.		A copy of the	e International Application	as filed (35 U.S.C. 371 (c)(2)).	
		a. $\square$ is	s attached hereto (require	d only if not communicated by the International	Bureau).
		b. 🗆 h	as been communicated b	by the International Bureau.	
		c. 🗆 is	s not required, as the appl	lication was filed with the United States Receiving	ng Office (RO/US).
6.		An English la	anguage translation of the	International Application as filed (35 U.S.C. 37	1(c)(2)).
		a. $\square$ is	s attached hereto.		
		b. 🗆 h	as been previously submi	itted under 35 U.S.C. 154(d)(4).	
7.		Amendments	s to the claims of the Inter	rnational Application under PCT Article 19 (35 U	J.S.C. 371 (c)(3)).
		а. 🗆 а	ire attached hereto (requir	red only if not communicated by the Internationa	al Bureau).
		b. 🗆 h	nave been communicated	by the International Bureau.	
		c. 🗆 h	nave not been made; howe	ever, the time limit for making such amendment	s has NOT expired.
		d. 🗆 h	nave not been made and v	vill not be made.	
8.		An English la	anguage translation of the	e amendments to the claims under PCT Article 1	19 (35 U.S.C. 371 (c)(3)).
9.	$\boxtimes$	An oath or de	eclaration of the inventor(	s) (35 U.S.C. 371 (c)(4)).	
10.		_	anguage translation of the 5 U.S.C. 371 (c)(5)).	annexes of the International Preliminary Exami	ination Report under PCT
Item	ıs 11 1	to 20 below co	oncern document(s) or i	information included:	
11.	⊠	Information [	Disclosure Statement unde	er 37 CFR 1.97 and 1.98	
12.		An assignme	ent document for recording	g. A separate cover sheet in compliance with 3	7 CFR 3.28 and 3.31 is included.
13.		A preliminary	y amendment.		
14.		An Application	on Data Sheet under 37 C	FR 1.76.	
15.		A Substitute	specification.		
16.		A power of a	ittorney and/or change of	address letter.	
17.		A computer-r	readable form of the sequ	ence listing in accordance with PCT Rule 13ter	:2 and 35 U.S.C. 1.821-1.825.
18.		A second cor	py of the published Interna	ational Application under 35 U.S.C. 154 (d)(4).	
19.		A second co	py of the English language	e translation of the international application 35 t	U.S.C. 154 (d)(4).
20.	$\boxtimes$	Other items of	or information:		
		b. 🔯 (	Copy of Notification of Mis	ernational Publication No. <b>WO 2005/057481 A1</b> ssing Requirements.  ort from European Patent Office.	•

U.S. APPLICATION NO. (if knowr 10/582,167	n, see 37 CFR 1.5)	INTERNATIONAL APPLICAT PCT/GB2004/005179	TION NO.		ATTORNEY'S DOON NUMBER 06999	
The following fees ha	ve been submitted:				CALCULATIONS	PTO Use Only
21.   BASIC NATIONAL FI	EE (37 CFR 1.492(a)):		\$300.00		\$	<b>,</b>
22.  Examination fee (37C)	FR 1.492(c))					
If the Written opinion prepared by by IPEA/US indicates all classifications	aims satisfy provisions of PC	T Article 33(1)-(4)	\$0		\$	
Search fee (37 CFR 1.445(a)(2)) I International Searching Au International Search Report prepa	S or the International preliming satisfy provisions of PCT and been paid on the international by an ISA other than the othe US by the IB	Article 33(1)-(4)tional application to the USPT and provided to the Offic	\$0 O as an\$100 e or\$400		\$	
	TOTAL of 2	1, 22 and 23 =			\$	
electronic medium) (3	with 37 CFR 1.821(c) or (e)	or computer program listing in				
Total Sheets	Extra Sheets	Number of each additional thereof (round up to a who		Rate		
52 - 100 =	/50=		,	x \$250.00	\$	
Surcharge of \$130.00 for furnishin commencement of the national st	•	amination fee, or the oath or de	eclaration after the da	ate of	\$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			
Total Claims	21 - 20	= 1	x \$50.0	0	\$	
Independent Claims	4 -3	= 1	x \$200.0	00	\$	
MULTIPLE DEPENDENT CLAIM	(S) (if applicable)		+\$360.0	00	\$	
		ATOTA	L OF ABOVE CALC	ULATIONS =	\$130.00	
☐ Applicant claims small entity s	tatus. See 37 CFR 1.27. Fe	ees above are reduced by ½.			\$	
				SUBTOTAL =	\$130.00	
Processing fee of \$130.00 for furr 1.492(i)).	nishing the English translation	n later than 30 months from th	e earliest priority dat	e (37 CFR +	\$	
			TOTAL NATI	ONAL FEE =	\$130.00	
Fee for recording the enclosed as cover sheet (37 CFR 3.28, 3.31).	• • • • • • • • • • • • • • • • • • • •	. The assignment must be acc	companied by an app	ropriate +	\$	
			TOTAL FEES E	NCLOSED =	\$130.00	
					Amount to be refunded:	\$
		···			charged:	\$
a. 🖾 A check in the amount of	of \$ <u>130.00</u> to cover the ab	ove fees is enclosed.				
b. Please charge my Depo A duplicate copy of this		in the amount of \$		to cover t	ne above fees.	
	ereby authorized to charge a e copy of this sheet is enclo	ny additional fees which may sed.	be required, or credit	any overpaym	ent to Deposit Acco	unt
■ · · · · · · · · · · · · · · · · · · ·	to a credit card. WARNING credit card information and a	: Information on this form may uthorization on PTO-2038.	become public. Cre	dit card infor	mation should not	be included
NOTE: Where an appropriate to restore the Internation	ime limit under 37 CFR 1.4 onal Application to pendi	•	ion to revive (37 CF	R 1.137(a) or (	(b)) must be filed a	nd granted
SEND ALL CORRESPONDENC	E TO:		1///			
Finnegan, Henderson, Farabow, 901 New York Avenue, N.W. Washington, DC 20001-4413	Garrett & Dunner, L.L.P.	SIGNATU	•			
DATED: May 29, 2007			Chapman/25,961 GISTRATION NUME	BER	······································	



22852

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/582,167

Ian John KEEN

08364.0087

INTERNATIONAL APPLICATION NO. PCT/GB04/05179

I.A. FILING DATE

PRIORITY DATE

12/08/2004

12/08/2003

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-441

APR 0 5 2007

**CONFIRMATION NO. 1854 371 FORMALITIES LETTER** 

\*OC000000023151001\*

Date Mailed: 04/02/2007

FINNEGAN, HENDERSON, FARABOW, GARRETT AND DUNNER, LLP

# NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 06/08/2006
- Copy of the International Search Report filed on 06/08/2006
- Preliminary Amendments filed on 06/08/2006
- U.S. Basic National Fees filed on 06/08/2006
- Priority Documents filed on 06/08/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

#### **SUMMARY OF FEES DUE:**

Total additional fees required for this application is \$130 for a Large Entity:

• \$130 Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION,

#### WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. <a href="https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html">https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html</a>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <a href="http://www.uspto.gov/ebc.">http://www.uspto.gov/ebc.</a>

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

FRANCINE YOUNG

Telephone: (703) 308-9140 EXT 215

### PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/582,167	PCT/GB04/05179	08364.0087

FORM PCT/DO/EO/905 (371 Formalities Notice)